

AMENDMENT TO THE CLAIMS

The following is a detailed listing of all claims that are, or were, in the Application.

1. (Withdrawn) An apparatus for processing description information of multimedia data, comprising:

a server 100 adding description information to multimedia; and

a terminal 200 transmitting/receiving multimedia data to/from the server 100, storing a user's usage history about the multimedia data, grasping a preference of a user with the stored usage history and providing the preference of the user to the server 100.

2. (Withdrawn) The apparatus of claim 1, wherein the server 100 further includes a description information descriptor 110 adding description information to the multimedia data.

3. (Withdrawn) The apparatus of claim 2, wherein the description information descriptor 110 classifies the description information added to the multimedia data into common characteristic information 300 commonly applicable to the multimedia data and inherent characteristic information 400 inherently applicable to the multimedia data, and the common characteristic information 300 and the inherent characteristic information 400 including subordinate characteristic information, respectively.

4. (Withdrawn) The apparatus of claim 2, wherein the description information descriptor 110 classifies the description information into common characteristic information 300 commonly applicable to the multimedia data and inherent characteristic information 400 inherently applicable to the multimedia data, a program ID 500 for distinguishing multimedia data having the same common characteristic information 300 from multimedia data having different common characteristic information and an inherent ID (Identification) 600 for identifying each of the multimedia data, and adds them to the multimedia data.

5. (Withdrawn) The apparatus of claim 4, wherein the common characteristic information includes not less than one of genre information, director information, leading actor and actress information and title information.

6. (Withdrawn) The apparatus of claim 4, wherein the inherent characteristic information includes not less than one item of a plot, an episode sequence in a series, a running time of multimedia data.

7. (Withdrawn) The apparatus of claim 2, wherein the description information descriptor 110 classifies description information into characteristic information, a program ID (Identification) 500 for distinguishing multimedia data having the same common characteristic information from multimedia data having different common characteristic information, and an inherent ID 600 for classifying each of the multimedia data.

8. (Withdrawn) The apparatus of claim 7, wherein the characteristic information includes type information 350 for classifying itself into common characteristic information 300 or inherent characteristic information 400.

9. (Withdrawn) The apparatus of claim 2, wherein the description information descriptor 110 classifies the description information into characteristic information, a program ID 500 for distinguishing multimedia data having the same common characteristic information 300 from multimedia data having different common characteristic information, an inherent ID for identifying each of the multimedia data and episode sequence information, and adds them to the multimedia data.

10. (Withdrawn) The apparatus of claim 9, wherein the characteristic information includes application group information 900 indicating applicable to other multimedia data

having the same program ID.

11. (Withdrawn) The apparatus of claim 10, wherein the application group information 900 includes first episode information 910 and last episode information 920 in order to describe a range in which each of the characteristic information can be commonly applied to the multimedia data having the same program ID.

12. (Withdrawn) The apparatus of claim 2, wherein the description information descriptor 110 adds an inherent ID 600 to the multimedia data in order to identify each of the characteristic information and each of the multimedia data.

13. (Withdrawn) The apparatus of claim 12, wherein each of the characteristic information further includes application group information 900 indicating applicable to other multimedia data having the same program ID.

14. (Withdrawn) The apparatus of claim 13, wherein the application group information 900 includes an application ID 930 in order to identify each characteristic information commonly applied to the multimedia data.

15. (Withdrawn) The apparatus of claim 1, comprising:
a display unit 220 displaying multimedia transmitted from the server 100;
a data analyzing unit 230 classifying the transmitted multimedia data and comparing program IDs of the multimedia data;
a memory unit 240 storing a user's usage history about the multimedia data; and
an I/O (Input / Output) interface unit 210 transmitting a user's preference to the server 100.

16. (Withdrawn) The apparatus of claim 15, wherein the data analyzing unit classifies the multimedia data transmitted from the server 100 into a common list and an inherent list.

17. (Withdrawn) The apparatus of claim 16, wherein the common list is stored in the memory unit 240.

18. (Withdrawn) The apparatus of claim 16, wherein the common list includes link information linking the common list itself to the inherent list.

19. (Withdrawn) The apparatus of claim 16, wherein the common list is stored in an additional memory unit.

20. (Withdrawn) The apparatus of claim 19, wherein the common list includes link information linking the common list stored in the additional memory unit to the inherent list.

21. (Withdrawn) A method for processing description information of multimedia data, comprising:

classifying description information into common characteristic information 300 commonly applicable to multimedia data and inherent characteristic information 400 inherently applicable to the multimedia data when the multimedia data is transmitted from a server to a terminal;

constructing a hierarchical information description format by adding each characteristic information of the multimedia data to a subordinate of the common characteristic information 300 and the inherent characteristic information 400, respectively; and

adding the hierarchical information description format to the multimedia data.

22. (Withdrawn) The method of claim 21, wherein the hierarchical information description format adding process further includes the step of:

adding a program ID 500 for distinguishing multimedia data having the same common characteristic information from multimedia data having different common characteristic information to the multimedia data.

23. (Withdrawn) The method of claim 22, wherein the program ID adding step further includes the sub-step of:

adding an inherent ID 600 for identifying each of the multimedia to the multimedia data.

24-27. (Canceled)

28. (New) A method for processing description of multimedia content, the method comprising:

receiving a first description describing content in a first multimedia object, the first description including a first identifier and a reference to a group of multimedia objects, wherein the first identifier identifies the first multimedia object and the reference to the group indicates that the first multimedia object belongs to the group of multimedia objects; and

receiving a description about the group of multimedia objects, wherein the description about the group includes a group identifier that identifies the group.

29. (New) The method of claim 28, wherein the reference to the group includes information to determine the group identifier.

30. (New) The method of claim 29, further comprising:
using the group identifier to associate the first multimedia object with the description about the group.

31. (New) The method of claim 28, further comprising:
storing a usage history that lists user actions and associates the first identifier with each user action that is related to the first multimedia object.

32. (New) The method of claim 31, wherein the usage history includes a reference to a multimedia description.

33. (New) The method of claim 32, wherein the referenced multimedia description includes at least a portion of the description about the group.

34. (New) The method of claim 28, further comprising:
using the first description or the description about the group to describe user preferences.

35. (New) The method of claim 28, wherein the group of multimedia objects represents a series of episodes, and wherein the reference to the group indicates that the first multimedia object represents an episode of the series.

36. (New) The method of claim 35, wherein the reference to the group specifies an episode number for the first multimedia object.

37. (New) The method of claim 28, wherein the description about the group

includes a title for the group of multimedia objects.

38. (New) The method of claim 28, wherein the description about the group specifies a genre for the group of multimedia objects.

39. (New) The method of claim 28, wherein the description about the group specifies a director or one or more actors or actresses for the group of multimedia objects.

40. (New) The method of claim 28, wherein the first description includes a hierarchical structure in which the reference to the group is represented at the same hierarchical level as a container including content description elements.

41. (New) The method of claim 40, wherein the content description elements include an element describing a title or a genre for the first multimedia object.

42. (New) The method of claim 40, wherein the content description elements include an element specifying a director, an actor, or an actress for the first multimedia object.

43. (New) The method of claim 40, wherein the content description elements include an element for a textual description of the content in the first multimedia object.

44. (New) A method for providing description of multimedia content, the method comprising:

generating a first description describing content in a first multimedia object, the first description including a first identifier and a reference to a group of multimedia objects,

wherein the first identifier identifies the first multimedia object and the reference to the group indicates that the first multimedia object belongs to the group of multimedia objects; and

transmitting the first description to a user terminal.

45. (New) The method of claim 44, further comprising:
generating a description about the group of multimedia data objects, wherein the description about the group includes a title for the group of multimedia objects and a group identifier to identify the group of multimedia objects.

46. (New) The method of claim 45, further comprising:
transmitting the description about the group to the user terminal.

47. (New) The method of claim 45, wherein the reference to the group includes information to determine the group identifier.

48. (New) The method of claim 44, wherein the group of multimedia objects represents a series of episodes, and wherein the reference to the group indicates that the first multimedia object is an episode of the series.

49. (New) The method of claim 48, wherein the reference to the group specifies an episode number for the first multimedia object.

50. (New) The method of claim 44, wherein the first description includes a hierarchical structure in which the reference to the group is represented at the same hierarchical level as a container including content description elements.

51. (New) The method of claim 50, wherein the content description elements include an element describing a title or a genre for the first multimedia object.

52. (New) The method of claim 50, wherein the content description elements include an element specifying a director, an actor, or an actress for the first multimedia object.

53. (New) The method of claim 50, wherein the content description elements include an element for a textual description of the content in the first multimedia object.

54. (New) A system for processing description of multimedia content, the system comprising:

a memory unit; and

data processing apparatus configured to:

receive a first description describing content in a first multimedia object, the first description including a first identifier and a reference to a group of multimedia objects, wherein the first identifier identifies the first multimedia object and the reference to the group indicates that the first multimedia object belongs to the group of multimedia objects;

receive a description about the group of multimedia objects, wherein the description about the group includes a group identifier that identifies the group; and

store in the memory unit at least a portion of the first description or the description about the group.

55. (New) The system of claim 54, wherein the reference to the group includes information to determine the group identifier, and wherein the data processing apparatus is further configured to:

use the group identifier to associate the first multimedia object with the description

about the group.

56. (New) The system of claim 54, wherein the data processing apparatus is further configured to:

store a usage history in the memory unit, the usage history listing user actions and associating the first identifier with each user action that is related to the first multimedia object.

57. (New) The system of claim 56, wherein the usage history includes a reference to a multimedia description.

58. (New) The system of claim 54, wherein the data processing apparatus is further configured to:

use the first description or the description about the group to describe user preferences.

59. (New) The system of claim 54, wherein the group of multimedia objects represents a series of episodes, and wherein the reference to the group indicates that the first multimedia object represents an episode of the series.

60. (New) The system of claim 54, wherein the first description includes a hierarchical structure in which the reference to the group is represented at the same hierarchical level as a container including content description elements.

61. (New) The system of claim 54, wherein the description about the group specifies a title, a genre, a director, or one or more actors or actresses for the group of multimedia objects.

62. (New) A system for providing description of multimedia content, the system comprising:

data processing apparatus configured to generate a first description describing content in a first multimedia object, the first description including a first identifier and a reference to a group of multimedia objects, wherein the first identifier identifies the first multimedia object and the reference to the group indicates that the first multimedia object belongs to the group of multimedia objects; and

a transmitter configured to transmit the first description to a user terminal.

63. (New) The system of claim 62, wherein the data processing apparatus is further configured to:

generate a description about the group of multimedia data objects, wherein the description about the group includes a title for the group of multimedia objects and a group identifier to identify the group of multimedia objects.

64. (New) The system of claim 63, wherein the transmitter is further configured to:

transmit the description about the group to the user terminal.

65. (New) The system of claim 62, wherein the reference to the group includes information to determine the group identifier.

66. (New) The system of claim 62, wherein the group of multimedia objects represents a series of episodes, and wherein the reference to the group indicates that the first multimedia object is an episode of the series.

67. (New) The system of claim 62, wherein the first description includes a

hierarchical structure in which the reference to the group is represented at the same hierarchical level as a container including content description elements.

68. (New) The system of claim 67, wherein the content description elements in the first description include an element specifying a title, a genre, a director, an actor, or an actress for the first multimedia object.

69. (New) A computer program product for processing description of multimedia content, the computer program comprising instructions to cause data processing apparatus to perform operations comprising:

receiving a first description describing content in a first multimedia object, the first description including a first identifier and a reference to a group of multimedia objects, wherein the first identifier identifies the first multimedia object and the reference to the group indicates that the first multimedia object belongs to the group of multimedia objects; and

receiving a description about the group of multimedia objects, wherein the description about the group includes a group identifier that identifies the group.

70. (New) The product of claim 69, wherein the computer program further comprises instructions to cause data processing apparatus to perform operations comprising:

storing a usage history that lists user actions and associates the first identifier with each user action that is related to the first multimedia object.

71. (New) The product of claim 69, wherein the group of multimedia objects represents a series of episodes, and wherein the reference to the group indicates that the first multimedia object represents an episode of the series.

72. (New) The product of claim 69, wherein the first description includes a hierarchical structure in which the reference to the group is represented at the same hierarchical level as a container including content description elements.

73. (New) A computer program product for providing description of multimedia content, the computer program comprising instructions to cause data processing apparatus to perform operations comprising:

generating a first description describing content in a first multimedia object, the first description including a first identifier and a reference to a group of multimedia objects, wherein the first identifier identifies the first multimedia object and the reference to the group indicates that the first multimedia object belongs to the group of multimedia objects; and

sending the first description to a user terminal.

74. (New) The product of claim 73, wherein the computer program further comprises instructions to cause data processing apparatus to perform operations comprising:

generating a description about the group of multimedia data objects, wherein the description about the group includes a title for the group of multimedia objects and a group identifier to identify the group of multimedia objects.

75. (New) The product of claim 73, wherein the group of multimedia objects represents a series of episodes, and wherein the reference to the group indicates that the first multimedia object is an episode of the series.

76. (New) The product of claim 73, wherein the first description includes a hierarchical structure in which the reference to the group is represented at the same hierarchical level as a container including content description elements.

77. (New) A system, comprising:

a user terminal; and

a server configured to:

generate a first description describing content in a first multimedia object, the first description including a first identifier and a reference to a group of multimedia objects, wherein the first identifier identifies the first multimedia object and the reference to the group indicates that the first multimedia object belongs to the group of multimedia objects; and

transmit the first description to the user terminal.

78. (New) The system of claim 77, wherein the group of multimedia objects represents a series of episodes, and wherein the reference to the group indicates that the first multimedia object is an episode of the series.

79. (New) The system of claim 77, wherein the server is further configured to:

generate a description about the group of multimedia objects, wherein the description about the group includes a title for the group of multimedia objects and a group identifier to identify the group of multimedia objects.